Remote-control solutions for smooth operation and precise control of industrial machinery

The Eaton OMNEX Trusted Wireless™ is the industry pioneer and leader in rugged radio remote controls for heavy machinery and field operations. For over 25 years, OMNEX remote-control products have been used to wirelessly control high-value machinery in harsh environments with utmost reliability, precision and durability.

The OMNEX product portfolio contains mobile control transmitters and receivers that are robust, easy to use and configurable, and that stand up under the most demanding industrial conditions.

The Eaton OMNEX series develops OEM solutions for applications that require high degrees of operator flexibility and safety when operating and manipulating vehicle-mounted equipment and mobile machinery. Customers are OEM machinery builders who want to leverage wireless control to achieve greater safety and productivity for machine operators. These products offer the latest technology, provide enhanced ergonomics and controller aesthetics, and put more and better machine information in operators’ hands.

The OMNEX Trusted Wireless R260 controller is a robust, license-free, wireless I/O module and valve driver designed for smooth operation and precision control of industrial machinery in global applications. Designed with the latest in mobile control network technology, the R260 offers industry-leading features, including CANbus network integration, IEC 61131-3 compliant PLC programmability, and Eaton’s OMNEX industrially hardened Trusted Wireless FHSS radio technology for robust and secure two-way wireless communication. The R260 also features 20 I/O, dual CAN ports and an impact-resistant enclosure to ensure dependable operation and precise control.
Key features and benefits

- 2.4 GHz trusted wireless radio transceiver with FHSS technology
- Two-way wireless communication
- IEC 61131-3 compliant PLC programmability
- Designed for CANbus network integration
- Dual SAE J1939, CANopen or proprietary CAN interfaces
- Capable of supporting 20 I/O (up to four proportional outputs)
- Simple, tool-free pairing with transmitters
- Rugged IP67 rated enclosure
- 1640 ft (500m) line of sight operational range

Technology for high-value mobile hydraulic machinery

- OMNEX's trusted wireless FHSS radio control technology
- Rugged, weatherproof enclosures
- Vibration-, temperature- and humidity-tolerant electronics
- Sophisticated control algorithms to guarantee fail-safe operation
- Machine-to-machine and man-to-machine applications
- Configurable I/O for digital and/or proportional control

Common applications

The Eaton OMNEX mobile control products are used extensively in harsh environments where a ruggedized product is needed to meet demanding requirements. Typical applications include:

- Construction equipment
- Agricultural equipment
- Specialty vehicle
- Material handling
- Mining equipment
- Fire and emergency vehicle

Technical data

- Operating temperature: –40°C to 75°C
- Storage temperature: –50°C to 85°C
- Supply voltage: 9–32 Vdc
- Ingress protection: IP67
- Certification: FCC, IC, SAE J1113-11 load dump
- I/O network communication: CANbus (2 x SAE-J1939 or CANopen)
- Frequency: 2.4 GHz FHSS
- Operating range: 1640 ft (500m) line of sight
- Programmability: IEC 61131-3 compliant PLC development environment

Dimensions in inches (mm)

Connectors as Seen from Under the Receiver

Connector Pin Assignments

R260/R160 Dimensions

5.13 (130.3)

4.00 (101.6)

Connector A (Grey)

Connector B (Black)

Factory Configurable Only

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- Construction equipment
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